MASTER BLASTER™
FOAM CANNONS

Operating Instructions

www.masterblasterfoam.co.uk

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Thank you for choosing Masterblaster Foam Cannons

Please read carefully this instruction manual, which includes important information about installation, operation and maintenance.

Introduction

Built primarily for the entertainment industry with portability and safety in mind the Masterblaster foam cannon is the result of many years research and development and is as far as we know the driest high output foam cannon on the market. Masterblaster cannons incorporates high powered foam generating pods as well as a thrust fan which blows massive amounts up to 8 to 10 meters.

Features:

High foam output
Low water consumption
Produces relatively dry foam compared to other machines on the market
No need for direct water connection or unmovable water tank
Separate pod motors, thrust fan and drainage design insures maximum output without waste water
Reliable p IP rated power switches
Sturdy 16a IP rated chassis mounted mains connections
Removable pipes and front cone
Heavy duty construction
Strong and robust floor mounting stand
Over 15 years in the market place
Short set up time
Low slip foam (the same as water rather than soap)
Easy to clean reliable with low maintenance

Safety instructions

Please keep this user guide for future consultation. If you sell the unit to another user be sure they also receive this user guide

Unpack and check carefully that for transportation damage before using the unit.

Before operation, ensure that the voltage and frequency of power match the power requirements of the unit 230volts 13 amps.

It is important that the yellow and green conductor is connected to Earth to avoid electric shock

A residual current device (RCD), or residual current circuit breaker (RCCB), should always be used when operating these machines

Where possible at a venue try to have a dedicated power circuit of 16 amps for this machine.

Disconnect main power before fuse replacement or servicing.

This foam cannon unit is designed for indoor use only in a dry location

The unit must be installed in a location with adequate ventilation insuring that fan grills and foam exit are never blocked.

Do not suspend unit above people's heads without correct brackets and fixing devices supplied by the manufacture.

Maximum ambient temperatures 40C do not operate where temperature is higher than this.

Ensure that any power extension cables used are as short as possible and of an expropriate power rating 16amps IP44 rated (blue plugs) with 2.5mm dia flex is recommended do not use 1.5mm 13a wind up cable reels

In the event of serious operating problem, stop the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance. Always use genuine spare parts.

Warning

To prevent or reduce the risk of electric shock or fire, do not expose the unit to rain or Moisture.

To reduce the risk of equipment falling only use genuine stand. Ensure that the foam cannon is correctly seated onto the stand before operation.

Ensure all cables and pipes are firmly inserted in to the correct locations before operation.

Caution

There are no user serviceable parts within this unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service please contact your nearest dealer.

Technical Information

Voltage	AC230 volts
Frequency	50Hz
Current	(16Amps 4 pod) or (13amps 2pod)
Cannon dimensions	H-630mm x W-800mm x L-1070mm
Including nose	H-630mm x W-800mm x L-1490mm
Masterblaster Weight	50kg (approximate)
Masterblaster FF fluid dilution	25 parts water to 1 part Masterblaster FF Fluid
Fluid usage	100 to 120 litters of water and fluid mix each hour approximate

Average foam through 8-10 meters depending on environment.

Getting Started

Installation

1. Open the M/B tripod base, secure it with the thumb screw half way up and place it onto a flat level surface (avoid areas near steps or slops).

2. Slide the top section of the stand over the base. Overall height of the stand can be adjusted by placing a pin into the holes provided on the side of the stand. Where possible mount the stand in such a position that the foam at the front can be aimed above peoples heads and not directly at people in front of the machine.

3. Place foam cannon onto the stand ensure that the rear of the stand seat butts up to the back door of the foam cannon and that the front drain outlet is in front of the stand at the other end.

4. Attach the water inlet pipe (smaller of the two pipes) to the machine with the push fit connection which is located near the mains power inlet. This connection is made by pushing the pipe firmly into the connector it can be broken by pushing hard on the ring around the pipe then removing the pipe.

5. The water outlet pipe should be connected to the drain gland on the bottom of the machine located near the front. This connection is a twist gland that should be loosened before pushing the pipe in then tightened a few turns until the pipe hold in place.

6. Connect the mains power lead to the cannon ensuring the 16 amp plug is pushed firmly onto the chasses mount socket.

7. The cannon is ready for cleaning please follow further instructions on how to do this further into this user guide before the following the next step

8. Hold the front cone onto the machine and fix it to the body with the 5 thumb screws. Ensure that the thumb screws firmly secure the front cone to the machine but are not over tightened which could cause damage.

Only place the Cannon onto a genuine Masterblaster tripod stand and upper stand seat or use an approved ceiling mounting kit which should be installed a competent installer.

Locate the cannon in an area away from edges for stages or platforms where it could fall off.

Avoid positioning the cannon in an area where members of the public could touch pull or swing on the cannon.

Do not position the cannon in an area where it would be pointing directly at other electrical appliances.

Turning the cannon on and off

Switches on the Masterblaster are labelled.

M = Motor (foam pod or 2x pods depending on model)
M = Motor (foam pod or 2x pods depending on model)
F = fan (thrust fan)
P = Pump

These switches must be turned on in sequence M>M>F>P (with a short delay between each) and turned off in reverse P>F>M>M. When turning the cannon off it is good practice to turn off the pump first, wait for foam to stop exiting the machine before turning off power to both the pod motors and thrust fan P>wait to stop>F>M>M.

On older machines do not switch pump on independently, as this could cause flooding on newer machines the pump will not work if turned on independently.

If all switches are turned on at the same time a power surge created can often trip a 32amp ring main fuse.

Cleaning

Your Masterblaster cannon must be cleaned before and after every session!

Cleaning before every session clears the machine of any dust or dirt partials that could be picked up in transit. Partials entering the water inlet pipe could potentially block the pump so follow the instructions below and drain waste water into a separate container when cleaning. Cleaning before a session lowers any risk of bacterial infection and clears left over water droplets that have been hanging around inside of the machine during storage.

After your foam session it is imperative that the following steps are again followed. All foam fluid mix must be cleared from the Masterblaster with water Failure to do so will lead to pipe and pump blockages and could cause unit failure.

1. Using fresh chlorinated water from a cold tap rinse and drain the 25 litre water containers thoroughly. (Never use hot water or water that has been stored)
2. Fill one water container with about 5 litres of water place it under the cannon and insert the cannons water inlet pipe into it.
3. Place an empty container under the cannon adjacent to the 1st and insert the cannons waste water pipe into it.
4. Switch the foam cannons on in the normal way shown in the power up section.
5. Wait for the water to run thru the machine and into the waste container whilst this is happening its good practice to massage the foam socks inside the void on the front of the machine ensuring they are completely wet. Any residue on the foam socks can normally be massaged out at this point as the water flows through the socks.
6. Once the water has stopped the containers can be emptied and rinsed again.

Storage

Always store and transport the machine with the front cone removed and the front of the machine facing downwards Failure to do so could result in any liquid remaining in the machine to drain back into the pod motors, thus causing damage.

Filling fluid containers and mixing ratios

Water containers are available from Masterblaster
We recommend the use of a 1 litre measuring jug

1. Thoroughly wash all containers and a 1 litre measuring jug before filling.
2. Fill a water container with 25 litres of fresh chlorinated water from a cold tap.
3. Add a maximum of 1 litre of Masterblaster FF Fluid into the water container using the measuring jug.
4. Screw a lid onto the container and gently rock it to ensure adequate mixing.
5. Repeat the above until all containers are filled
6. The fluid is ready for immediate use but should be discarded if not used within 8 to 10 hours.

The correct mix ratio of Masterblaster Fluid and water

25 litres of water to 800ml of Masterblaster fluid (weak mix)
- or -
25 litres of water to 1 of a litre of Masterblaster fluid (strong mix)

Masterblaster Foam Fluid is only available from:
Masterblaster Call: 0191 394 1 948

Important

Never mix Masterblaster fluid stronger than 25parts water to 1 part

Use of any other product is dangerous and will immediately invalidate warranty and damage your machine.

We do not guarantee the quality and results of foam chemicals from other manufacturers,

UNDER NO CIRCUMSTANCE SHOULD WASHING UP LIQUID, SHAMPOOS, BUBBLE-BATH OR ANY OTHER DETERGENTS OF ANY KIND HOWEVER MILD BE USED TO PRODUCE FOAM IN THESE MACHINES!

Any of the above when used in a cannon like this can cause burns and serious skin irritations.

Troubleshooting

What should I do if an RCD trips out?

An RCD is a safety device it should not be disconnected or modified!

Sometimes a venue with a Sensitive trip will reset if the cannon is left for a few minuets to dry out.

If an RCD repeatedly trips out it usually means that an electrical component has become wet or damp.

Has the Unit been stored in a damp place?
Has foam or damp air been sucked into the rear of the machine?
Did the operator block the foam exit forcing foam back through the thrust fan into the rear of the machine?

1. Unplug the machine from the mains and reset the trip.
2. Visually check to see if any cables are wet or have become damaged.
3. Look into the rear of the machine and ensure that it is dry.
4. Reconnect the cannon and try again.

(If a trip won't reset it means that an electrical component within the machine could be wet or damp the cannon should be disconnected from power immediately and left to dry out in a warm place.)

5 Once dry have the unit pat tested if there is any permanent damage it will show up in the test.
6. There are no user serviceable parts within this unit checks and maintenance should only be carried out by a qualified electrician.

Regular pat testing is advised and should be carried out at leased once per year

In the unusual event that a fault has developed that cannot be resolved by drying out the unit it should be returned to your dealer for servicing.

Why doesn't the pump prime?

1. Ensure you checked that the pipe is firmly pushed into the water inlet socket?

2. Have you turned the unit on it the correct order?
   (The pump wont start unless all 4 switches are on)

3. Have the water containers been suitably cleaned and are they free from debris?

4. Switch on the machine in the usual way place one hand under the base of the machine where the pump is located then slowly turn on and off switch "P" you should feel vibration when the pump if on if there is no vibration and all switches are on a fault has occurred and the unit should be inspected by a qualified electrician.

5. If the pump is running check that all pipes are fully pushed into place.

6. Occasionally pumps can become blocked when small particles become lodged into the veins within the pump. This often is the result of poor cleanliness of the water containers in this event it is sometimes possible to Physically prime the pump by blowing a mouth full of drinking water into the water inlet pipe. Once the pump has water init it usually will continue to work .

   (in this event we recommend that the pump is serviced by a service engineer see PDF how to service your Masterblaster pump any damage caused by customers during the warranty period is chargeable)

The foam cannon is completely dead and wont work

1. Have you checked that the cables are firmly plugged in?

2. Has the unit been switched on incorrectly and blown the buildings ring main fuse (all switches on at once can cause a serge at start-up)?

3. Check that the power socket you are using is working correctly by plugging something else into it

4. Check the fuse in the plug top replace only with a 13 amp fuse of the correct size

If the above fails consult a qualified electrician

Further help and support can be found at www.masterblasterfoam.co.uk
or by calling Masterblaster on 0191 394 1 948